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Application No. 10/536,533
Paper Dated: November 23, 2009
In Reply to USPTO Correspondence of October 1, 2009
Attorney Docket No. 4544-051675

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claims 1-22 (Cancelled)

Claim 23 (Currently Amended): A process for preparing an agglutination reagent for detecting typhoid comprising:

- (a) preparing ~~a polyclonal-mono-specific~~ an antibody specific to a Flagellin gene of *Salmonella typhi*;
- (b) preparing a latex particle suspension; and
- (c) coating a latex particle with said polyclonal-mono-specific antibody specific to *Salmonella typhi*;

wherein said ~~polyclonal-mono-specific-antibody specific to the Flagellin gene of *Salmonella typhi*~~ is prepared according to a method comprising:

- (i) raising a hyper immune sera against a purified protein encoded by a Flagellin gene specific to *Salmonella typhi*, and
- (ii) separating said ~~polyclonal-mono-specific-antibody specific to the Flagellin gene of *Salmonella typhi*~~ from said hyper immune sera;

wherein said latex particle suspension is prepared according to a method comprising:

- (i) mixing 1% carboxylated latex particles and a 40 mM 2-N morpholinoethane sulphonic acid (MES) buffer of pH 5.5 to 6.0 in a ratio of 1:1, washing with a 20 mM MES buffer of pH 5.5 thereby forming a washed latex particle, and
- (ii) adding a 1-ethyl-3 (3-dimethyl-amino propyl) carbodiimide hydrochloride (EDC) in a 20 mM MES buffer of pH 5.5 to said washed latex particle in a ratio of 1:1, washing with a 20 mM MES buffer (pH 5.5); and

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wherein said latex particle is coated according to a method comprising:

- (i) reacting said ~~polyclonal monospecific-antibody~~ specific to the Flagellin gene of *Salmonella typhi* with said washed latex particle thereby forming an antibody specific to the Flagellin gene of *Salmonella typhi* coated latex particle,
- (ii) stopping the reacting step (i) by adding 1M glycine (pH 11.0), and
- (iii) washing said ~~polyclonal monospecific-antibody~~ specific to the Flagellin gene of *Salmonella typhi* coated latex particle with a washing buffer comprised of 50 mM glycine, pH 8.5; 0.03% surfactant and 0.05% sodium azide.

Claim 24 (Currently Amended): An agglutination reagent for rapid and early detection of typhoid, comprising a carboxylated latex particle coated with an antibody specific to a Flagellin gene of *Salmonella typhi*, suspended in storage buffer.

Claim 25 (Previously Presented): The agglutination reagent as claimed in claim 24, wherein the size of the said latex particles is 0.88 to 0.90 μm .

Claim 26 (Previously Presented): The agglutination reagent as claimed in claim 24, wherein the said storage buffer is comprised of 50 mM glycine pH 8.5, 1.0% bovine serum albumin, 0.03% surfactant, 0.1% sodium azide and 0.01% thimerosal.

Claim 27 (Previously Presented): The agglutination reagent for rapid and early detection of typhoid as claimed in claim 24, wherein said antibody is an immunoglobulin fraction of a hyper immune sera raised against a protein encoded by a Flagellin gene specific to *Salmonella typhi*, and wherein said storage buffer is a 50 mM phosphate buffer.

Claim 28 (Withdrawn): A kit for rapid and early detection of typhoid comprising 1% agglutination reagent as claimed in claim 24 suspended in storage buffer, glass slides, droppers, wooden sticks and positive and negative controls.